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INDEX TO AMERICAN BOTANICAL LITERATURE

(1913)

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Anthon, S. I. The surprise lily. *Am. Bot.* **19**: 81-83. Au 1913.
[Ilust.]

Calochortus macrocarpus.

Bailey, W. W. Transient botanizing. *Am. Bot.* **19**: 98, 99. Au 1913.

Bartholomew, E. T. Black heart of potatoes. *Phytopathology* **3**:
180-182. *pl.* 19. 14 Au 1913.

Bitter, G. *Solana* peruv., aequat., boliv. *Bot. Jahrb. Beibl.* **50**:
58-67. 19 Au 1913.

Includes 7 new species in *Solanum*.

Blodgett, F. M. Hop mildew. *Cornell Univ. Agr. Exp. Sta. Bull.* 328:
281-310. *f.* 93-111. Mr 1913.

A disease caused by *Sphaerotheca Humuli*.

Börjesen, F. The marine algae of the Danish West Indies. Part I.
Chlorophyceae. 1-160. *f.* 1-126 + *chart.* Copenhagen. 1913.

Includes *Pringsheimia Udoteae*, *Cladophora uncinata*, *C. corallicola*, and *Avrainvillea Geppii*, spp. nov.

Brand, A. *Polemoniaceae* peruvianae et bolivienses. *Bot. Jahrb.*
Beibl. **50**: 50-52. 19 Au 1913.

Includes *Huthia longiflora* sp. nov.

Brown, P. E. Media for the quantitative determination of bacteria
in soils. *Centralb. Bakt. Zweite Abt.* **38**: 497-506. 9 Au 1913.

- Burger, O. F.** A bacterial rot of cucumbers. *Phytopathology* **3**: 169, 170. 14 Au 1913.
- Clute, W. N.** The day lilies. *Am. Bot.* **19**: 86-90. Au 1913. [Illust.]
- Cogniaux, A.** *Cucurbitaceae* andinae. *Bot. Jahrb. Beibl.* **50**: 75-76. 19 Au 1913.
Includes *Apodanthera eriocalyx* sp. nov.
- Cogniaux, A.** *Melastomataceae* peruviana. II. *Bot. Jahrb. Beibl.* **50**: 31-33. 19 Au 1913.
Includes *Tibouchina fulvipilis* and *Axinaea Weberbaueri*, spp. nov.
- Collins, F. S.** Three plants with extension of range. *Rhodora* **15**: 169, 170. 1 S 1913.
Panicum Bicknellii, *Potentilla tridentata*, and *Juncus bufonius* var. *halophilus*.
- Collins, G. N.** Mosaic coherence of characters in seeds of maize. U. S. Dept. Agr. Plant Ind. Circ. 132: 19-21. 19 Je 1913.
- Cook, M. T., & Schwarze, C. A.** A *Botrytis* disease of dahlias. *Phytopathology* **3**: 171-173. pl. 17. 14 Au 1913.
- Dammer, U.** *Solanaceae* americanae. II. *Bot. Jahrb. Beibl.* **50**: 52-58. 19 Au 1913.
Includes 6 new species in *Dunalia*.
- Fawcett, H. S.** Two fungi as casual agents in gummosis of lemon trees in California. *Phytopathology* **3**: 194, 195. Je 1913. Also published in *Monthly Bull. State Comm. Hort. Calif.* **2**: 601-617. f. 340-351. Au 1913.
Botrytis vulgaris and *Pythiacystis citrophthora*.
- Fernald, M. L.** A peculiar variety of the canoe birch. *Rhodora* **15**: 168, 169. 1 S 1913.
- Ferry, R.** Étude sur les Amanites. Premier Supplément *Rev. Myc.* **1911**: 1-96. pl. 1-8. 14 Je 1911.
- Fletcher, E. F.** Further wool-waste plants at Westford, Massachusetts. *Rhodora* **15**: 172. 1 S 1913.
- Fromme, F. D.** The culture of cereal rusts in the greenhouse. *Bull. Torrey Club* **40**: 501-521. 10 S 1913.
- Geckler, A.** *Echinocactus Droegeanus* Hildm. *Monats. Kakteenk.* **23**: 122. 15 Au 1913.
- Gilg, E.** *Gentianaceae* andinae. *Bot. Jahrb. Beibl.* **50**: 48-50. 19 Au 1913.
Includes five new species in *Gentiana* and one in *Macrocarpaea*.
- Gilg, E.** *Malesherbiaceae* andinae. II. *Bot. Jahrb. Beibl.* **50**: 11, 12. 19 Au 1913.
Includes *Malesherbia Weberbaueri* and *M. scarlatiflora*, spp. nov.

- Griggs, R. F.** Observations on the geographical composition of the Sugar Grove flora. Bull. Torrey Club **40**: 487-499. *f. 1-10.* 10 S 1913.
- Güssow, H. T.** The barberry and its relation to black rust of grain. Phytopathology **3**: 178, 179. 14 Au 1913.
- Harris, J. A.** An illustration of the influence of substratum heterogeneity upon experimental results. Science II. **38**: 345, 346. 5 S 1913.
- Harter, L. L., & Field, E. C.** A dry rot of sweet potatoes caused by *Diaporthe Batatatis*. U. S. Dept. Agr. Plant Ind. Bull. 281: 7-38. *pl. 1-4+f. 1-4.* 1 My 1913.
- Heribert-Nilsson, N.** *Oenothera*-problemet. Svensk Bot. Tidsk. **7**: 1-16. 25 Mr 1913. [Illust.]
- Herter, W.** José Arechavaleta. Monats. Kakteenk. **23**: 125-127. 15 Au 1913.
- Hill, G. R.** Respiration of fruits and growing plant tissues in certain gases, with reference to ventilation and fruit storage. Cornell Univ. Agr. Exp. Sta. Bull. 330: 377-408. Ap 1913.
- Hull, E. D.** Advance of *Potamogeton crispus* L. Rhodora **15**: 171, 172. 1 S 1913.
- Johnston, J. R.** The nature of fungous diseases of plants. Porto Rico Sugar Producers' Assoc. Circ. 2: 3-25. *f. 1-9.* My 1913.
- Jostmann, A.** *Pilocereus lanatus* (H. B. K.) Web. var. *Haagei* (Poselg.) Schelle. Monats. Kakteenk. **23**: 125. 15 Au 1913. [Illust.]
- Kellerman, K. F.** The use of congo red in culture media. U. S. Dept. Agr. Plant Ind. Circ. 130: 15-17. 21 Je 1913.
- Keyser, A.** Variation studies in brome grass. (A preliminary report). Colorado Agr. Exp. Sta. Bull. 190: 3-20. *pl. 1-19.* Je 1913.
- Kränzlin, F.** *Amaryllidaceae* peruviana, bolivienses, brasilienses. Bot. Jahrb. Beibl. **50**: 2-5. 19 Au 1913.
Includes *Collania Herzogiana*, *Bomarea Ulei*, *B. Loreti*, and *Eucharis Ulei*, spp. nov.
- Kränzlin, F.** *Buddleiae* americanae nonnullis gerontogaeis adjectis. Bot. Jahrb. Beibl. **50**: 33-47. 19 Au 1913.
Includes 22 new species in *Buddleia*.
- Kränzlin, F.** *Calceolariae* peruv., aequat., argent. Bot. Jahrb. Beibl. **50**: 67-75. 19 Au 1913.
Includes 9 new species in *Calceolaria*.
- Loesner, T.** *Celastraceae* andinae. II. Bot. Jahrb. Beibl. **50**: 8-10. 19 Au 1913.
Includes *Maytenus apurimacensis* and *M. andicola*, spp. nov.

- Meinecke, E. P.** Notes on *Cronartium coleosporioides* Arthur and *Cronartium filamentosum*. *Phytopathology* **3**: 167, 168. 14 Au 1913.
- Morse, W. J.** Some borrowed ideas in laboratory equipment. *Phytopathology* **3**: 175-177. *pl.* 18. 14 Au 1913.
- Muschler, R.** *Caryophyllacea* aequatoriana. *Bot. Jahrb. Beibl.* **50**: 5, 6. 19 Au 1913.
Drymaria adiantoides sp. nov.
- Muschler, R.** *Compositae* peruv. et boliv. II. *Bot. Jahrb. Beibl.* **50**: 76-108. 19 Au 1913.
Includes 29 new species in *Mikania* (1), *Liabum* (9), *Gynoxis* (6), *Chuquiraga* (3), *Onoseris* (4), *Barnadesia* (5), *Mutisia* (3), and *Jungia* (3).
- Muschler, R.** *Crucifera* peruviana. *Bot. Jahrb. Beibl.* **50**: 7, 8. 19 Au 1913.
Cremolobus stenophyllus sp. nov.
- Orton W. A.** International phytopathology and quarantine legislation. *Phytopathology* **3**: 144-151. 14 Au 1913.
- Pilger, R.** *Biologie und Systematik von Plantago* § *Novorbis*. *Bot. Jahrb.* **50**: 171-287. *f.* 1-30. 19 Au 1913.
Includes *Plantago taraxacoides*, *P. hypoleuca*, *P. pseudomyosuros*, *P. chubutensis*, *P. ecuadorensis*, *P. Berroi*, *P. achalensis*, *P. Buchtienii*, *P. macropus*, *P. Niederleinii*, *P. Arechavaletai*, *P. ventanensis*, *P. denudata*, *P. valida*, spp. nov., and many new varieties from America.
- Pilger, R.** *Graminea* peruviana. *Bot. Jahrb. Beibl.* **50**: 1, 2. 19 Au 1913:
Trichoneura Weberbaueri sp. nov.
- Pilger, R.** *Rosacea* peruviana. *Bot. Jahrb. Beibl.* **50**: 8. 19 Au 1913.
Prunus huantensis sp. nov.
- Prescott, A.** The moonwort. *Am. Bot.* **19**: 95-97. Au 1913. [Illust.]
- Putnam, B. L.** Our native *Aquilegia*. *Am. Bot.* **19**: 97. Au 1913.
- Rydberg, P. A.** Studies on the Rocky Mountain flora—XXIX. *Bull. Torrey Club* **40**: 461-485. 10 S 1913.
Includes 26 new species in *Hypopitys* (1), *Primula* (1), *Androsace* (2), *Amarella* (1), *Hydrophyllum* (1), *Anthopogon* (1), *Dasystephana* (2), *Amsonia* (1), *Cressa* (1), *Cuscuta* (1), *Gilia* (5), *Leptodactylon* (1), *Polemonium* (2), *Phacelia* (1), *Oreocarya* (2), *Penstemon* (1), *Mimulus* (1), and *Castilleja* (1).
- Saunders, C. F.** Wild soaps. *Am. Bot.* **19**: 99, 100. Au 1913.
- Schellenberg, G.** *Berberidacea* peruviana. *Bot. Jahrb. Beibl.* **50**: 6, 7. 19 Au 1913.
Berberis peruviana sp. nov.

- Schellenberg, G.** *Frankeniaceae* peruviana. Bot. Jahrb. Beibl. **50**: 10, 11. 19 Au 1913.
Frankenia peruviana sp. nov.
- Shear, C. L.** The type of *Sphaeria radicalis* Schw. Phytopathology **3**: 191, 192. 14 Au 1913.
- Stewart, V. B.** The fire blight disease in nursery stock. Cornell Univ. Agr. Exp. Sta. Bull. 329: 317-371. f. 112-126. Ap 1913.
- Sturgis, W. C.** *Heterotrachia* and *Neopeckia* on conifers. Phytopathology **3**: 152-158. pl. 12, 13. Je 1913.
- Swingle, W. T.** *Feroniella*, genre nouveau de la tribu des *Citreae*, fondé sur le *F. oblata*, espèce nouvelle de l'Indo-Chine. Bull. Soc. Bot. France **59**: 774-783. pl. 18. 18 F 1912.
- Sydow, H. & P.** Novae fungorum species—X. Ann. Myc. **11**: 254-271. f. 1-8. Je 1913.
Includes *Sphaerulina salicina* from North Dakota, *Phyllachora atro-maculans* and *Dothidella Picramniae* from Costa Rica.
- Taubenhaus, J. J.** The black rots of the sweet potato. Phytopathology **3**: 159-166. pl. 14-16. Au 1 13.
Includes *Sclerotium bataticola* sp. nov.
- Thomson, R. B.** On the comparative anatomy and affinities of the *Araucarineae*. Philos. Trans. Royal Soc. London B **204**: 1-50. pl. 1-7. 7 My 1913.
- Trelease, W.** *Furcraea* peruviana. Bot. Jahrb. Beibl. **50**: 5. 19 Au 1913.
Furcraea occidentalis sp. nov.
- Tullsen, H.** *Pentstemon grandiflorus*. Am. Bot. **19**: 84, 85. Au 1913.
[Illust.]
- Urban, I.** Plantae novae andinae imprimis Weberbaurinae. VI. Bot. Jahrb. Beibl. **50**: 1-108. 19 Au 1913.
Consists of 19 separate papers here indexed under their respective authors: Bitter, Brand, Cogniaux, Dammer, Gilg, Kränzlin, Loesener, Muschler, Pilger, Schellenberg, Trelease, and Vaupel.
- Vaupel, F.** *Cactaceae* andinae. Bot. Jahrb. Beibl. **50**: 12-31. 19 Au 1913.
Includes *Cephalocereus melanostele*, *Cereus acanthurus*, *C. apiciflorus*, *C. brachypetalus*, *C. decumbens*, *C. micranthus*, *C. plagiotoma*, *C. squarrosus*, *C. Weberbauri*, *Echinocactus aurantiacus*, *E. molendensis*, *E. myriacanthus*, *E. Weberbaueri*, *Opuntia dactylifera*, and *O. ignescens*, spp. nov.
- Vaupel, F.** Sieben neue *Cactaceae*. Monats. Kakteenk. **23**: 105-107. 15 Jl 1913.
- Vaupel, F.** Verzeichnis der seit der Herausgabe des I. Nachtrages zu K.

- Schumann's "Gesamtbeschreibung der Kakteen" (1903) neu beschriebenen und umbenannten Gattungen und Arten aus der Familie der *Cactaceae*. Monats. Kakteenk. **23**: 11-14. 15 Ja 1913; 23-27. 15 F 1913; 37-41. 15 Mr 1913; 56-60. 15 Ap 1913; 72-78. 15 My 1913; 81-88. 15 Je 1913.
- Weingart, W.** *Cereus Hirschtianus* K. Schum. Monats. Kakteenk. **23**: 108-111. 15 Jl 1913.
- Weir, J. R.** *Auricularia mesenterica* (Dicks.) Pers. Phytopathology **3**: 192. Au 1913.
- Wellington, R.** Mendelian inheritance of epidermal characters in the fruit of *Cucumis sativus*. Science II. **38**: 61. 11 Jl 1913.
- Wernham, H. F.** New *Rubiaceae* from tropical America—II. Jour. Bot. **51**: 218-221. Jl 1913.
Includes eleven new species in *Pteridocalyx* (1), *Tournefortiopsis* (1), *Gonzalea* (4), *Machaonia* (3), *Malanea* (1), and *Cephaelis* (1).
- Wester, P. J.** Annonaceous possibilities for the plant breeder. Philip. Agr. Rev. **6**: 312-321. pl. 2-7. Jl 1913.
- Westling, R.** Über die grünen Spezies der Gattung *Penicillium*. Arkiv Bot. **11**¹: 1-156. f. 1-81. 1911.
Discusses several American species.
- Williams, R. S.** *Dicranaceae*. N. Am. Fl. **15**: 77-158. 8 Au 1913.
Includes new species in *Dicranella* (2), *Dicranum* (1), and *Camphylopus* (4).
- Williams, R. S.** *Leucobryaceae*. N. Am. Fl. **15**: 159-166. 8 Au 1913.
Includes *Octoblepharum erectifolium* Mitten sp. nov.
- Wilson, G. W.** *Fusarium* or *Verticillium* on okra in North Carolina? Phytopathology **3**: 183-185. Je 1913.
- Wolf, F. A.** Melanose. Phytopathology **3**: 190, 191. 14 Au 1913.
- Yamanouchi, S.** The life history of *Zanardinia*. Bot. Gaz. **56**: 1-35. pl. 1-4 + f. 1-24. 16 Jl 1913.
- York, H. H.** The origin and development of the embryo sac and embryo of *Dendrophthora opuntioides* and *D. gracile*[is]. I. Bot. Gaz. **56**: 89-111. pl. 5, 6 + f. 1, 7, 8, 12a, 20, 21. 14 Au 1913; II. Bot. Gaz. **56**: 200-216. pl. 7. 17 S 1913.